BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK:- ***Estimate for the Improvements to Roads and Drains in Amruthahalli Easterside sourding roads in ward no. 7, (Byatarayanapura) in Kodigehalli Sub Division***

							ESTIMATED COST		42.00 Lakhs
Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate in Rs	Amount in Rs
1	Removing BS Slab of drain and stacking. (P.No.28, I.No.5.32 of PW,P&IWTD S.R 2013-14)						Sqm		
	Mariyamma Temple road		1	110.00	1.65		181.50		
	Cross Roads		1	50.00	1.65		82.50		
			1	40.00	0.45		18.00		
			1	50.00	0.45		22.50		
			1	30.00	1.65		49.50		
	Anganavadi Road		2	150.00	1.65		495.00		
							849.00	**50.11**	**42545.00**
	Basic Rate Rs.	46.40					601.50		30142.0
	Add 8% A.W Rs.	3.71							
	Total Rate Rs.	50.11							
2	Refixing stone slabs of drains and pointing in CM 1:3. (P.No.28, I.No. 5.33 of PW,P&IWTD S.R 2013-14)						Sqm		33702.0
	Qty Same as I.No.1 (80%)						**679.20**	**70.04**	**47570.00**
	Basic Rate Rs.	64.85					481.20		
	Add 8% A.W Rs.	5.19							
	Total Rate Rs.	70.04							
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (7.50cms thick) (P.No.28, I.No.5.31.1 of PW,P&IWTD SR 2013-14.)						Sqm 96.24		33053.0
		Qty Same as I.No.1 (20%)					**135.84**	**343.44**	**46653.00**
	Basic Rate Rs.	318.00							
	Add 8% A.W Rs.	25.44							
	Total Rate Rs.	343.44							
4	KSRRB M300-52.1. Scarifying the existing granular road surface to a depth of 50mm and disposal of scarified material within all lifts and leads upto 1000 metres complete as per specifications.MORTH Specification No. 305.4.3 (P-159, Item No. 19.58 SR 2013-14)						Sqm		
	Mariyamma Temple road		1	110.00	7.00		770.00		
	Anganavadi Road		1	150.00	6.00		900.00		
	Kullama road		1	40.00	6.50		260.00		
	Cross Roads		1	40.00	4.00		160.00		
			1	40.00	3.00		120.00		
							2210.00	**16.47**	**36399.00**
	Basic Rate Rs.	15.25							
	Add 8% A.W Rs.	1.22							
	Total Rate Rs.	16.47							
5	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. (P-160 Item No. 19.64 SR 2013-14)						Sqm		
	Mariyamma Temple road		1	110.00	7.00		770.00		
	Anganavadi Road		1	150.00	6.00		900.00		
	Kullama road		1	40.00	6.50		260.00		
	Cross Roads		1	40.00	4.00		160.00		
			1	40.00	3.00		120.00		

							2210.00	**3.94**	**8712.00**
	Basic Rate Rs.	3.65							
	Add 8% A.W Rs.	0.29							
	Total Rate Rs.	**3.94**							
6	KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller)MORTH Specification No. 305 (Page 159, Item No. 19.60 SR 2013-14)							**Cum**	
	Mariyamma Temple road		1	110.00	7.00	0.15	115.50		
	Anganavadi Road		1	150.00	6.00	0.15	135.00		
	Kullama road		1	40.00	6.50	0.15	39.00		
	Cross Roads		1	40.00	4.00	0.15	24.00		
			1	40.00	3.00	0.15	18.00		
							331.50	**166.32**	**55135.00**
	Basic Rate Rs.	154.00							
	Add 8% A.W Rs.	12.32							
	Total Rate Rs.	**166.32**							
7	KSRB 4-1.3: Providing and laying in position **plain cement concrete of mix M7.5 with OPC cement @ 180kgs, with 40mm and down** size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (Page - 12, Item No. 4.3) SR-2013-14							**Cum**	
	Mariyamma Temple road		1	110.00	7.00	0.15	115.50		
	Anganavadi Road		1	150.00	6.00	0.15	135.00		
	Kullama road		1	40.00	6.50	0.15	39.00		
	Cross Roads		1	40.00	4.00	0.15	24.00		
			1	40.00	3.00	0.15	18.00		
							331.50	**4290.84**	**1422413.00**
	Basic Rate	3973.00							
	Area Weightage @ 8%	317.84							
	Total	**4290.84**							
8	Providing and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel, fabrication and plastering charges) Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (1:1.5:3) (Cement-340 Kg/cum) (P. 19, I.No. 4.49.2) SR-2013-14							**Cum**	
	Mariyamma Temple road		1	110.00	7.00	0.10	77.00		
	Anganavadi Road		1	150.00	6.00	0.10	90.00		
	Kullama road		1	40.00	6.50	0.10	26.00		
	Cross Roads		1	40.00	4.00	0.10	16.00		
			1	40.00	3.00	0.10	12.00		
							221.00	**6468.12**	**1429455.00**
	Basic Rate	5989.00							
	Area Weightage @ 8%	479.12							
	Total	**6468.12**							
9	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. (P. 190 I. No. 22.7) SR-2013-14							**Sqm**	
	Mariyamma Temple road		1	110.00	7.00		770.00		
	Anganavadi Road		1	150.00	6.00		900.00		
	Kullama road		1	40.00	6.50		260.00		

	Cross Roads		1	40.00	4.00		160.00		
			1	40.00	3.00		120.00		
							2210.00	**91.80**	**202878.00**
	Basic Rate	85.00							
	Area Weightage @ 8%	6.80							
	Total	**91.80**							
10	Providing groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. for concrete pavement(P. 191 I. No. 22.8.1) SR-2013-14						**Rmtr**		
			40	5.00			200.00		
							200.00	**118.80**	**23760.00**
	Basic Rate	110.00							
	Area Weightage @ 8%	8.80							
	Total	**118.80**							
11	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 (P. 5, I.No. 2.3) SR-2013-14						**Cum**		
	C.D.		4	8.00	1.80	0.90	**51.84**	**151.74**	**7866.00**
	Basic Rate	140.50							
	Area Weightage @ 8%	11.24							
	Total	**151.74**							
12	KSRB 4-1.2: Providing and laying in position plain cement concrete of I mix M10 With OPC cement @ 220 Kgs with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P. 12, I.No. 4.2) SR-2013-14						**Cum**		
	C.D.		4	8.00	1.80	0.90	**51.84**	**4497.12**	**233131.00**
	Basic Rate	4164.00							
	Area Weightage @ 8%	333.12							
	Total	**4497.12**							
13	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (P. 25, I.No. 5.6) SR-2013-14						**Cum**		
	C.D.		8	8.00	0.60	0.60	**23.04**		
							23.04	**262.96**	**6059.00**
	Basic Rate	3287.00							
	Area Weightage @ 8%	262.96							
	Total	**262.96**							
14	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons (page. 17, Item No. 4.31)SR 2013-14						**Sqm**		
	C.D.		4	8.00	0.60		**19.20**		
							19.20	**271.08**	**5205.00**
	Basic Rate	251.00							
	Area Weightage @ 8%	20.08							
	Total	**271.08**							

15	Providing and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel, fabrication and plastering charges)Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (1:1.5:3) (Cement-320Kg/cum) (P. 19, I.No. 4.49.1) SR-2013-14						Cum		
	C.D.		4	8.00	1.80	0.23	13.25		
							13.25	6468.12	85690.00
	Basic Rate	5989.00							
	Area Weightage @ 8%	479.12							
	Total	**6468.12**							
16	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. (P. 19, I.No. 4.46) SR-2013-14 (TMT Bars Fe-415)						Qtl		
	C.D.		4	8.00	1.80	0.23	13.25		
							1059.84		
	13.25x 80Kg/Cum						10.59	7380.72	78162.00
	Basic Rate	6834.00							
	Area Weightage @ 8%	546.72							
	Total	**7380.72**							
17	KSRB 15.1.3 – do – Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.122.I.No. 15.3) SR-2013-14						Sqm		
	C.D.		8	8.00		0.60	38.40		
							38.40	79.92	3069.00
	Basic Rate	74.00							
	Area Weightage @ 8%	5.92							
	Total	**79.92**							
18	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (Page No. 27 Item No. 5.27.1) SR 2013-14						Sqm		
	Anganavadi Road		4	110.00	0.60		264.00		
			2	30.00	0.60		36.00		
							300.00	924.48	277344.00
	Basic Rate Rs.	856.00							
	Add 8% A.W Rs.	68.48							
	Total Rate Rs.	**924.48**							
19	Covering Slab (Date Rate)								
	Anganavadi Road		4	110.00	1.20		528.00		
			2	30.00	1.20		72.00		
	Basic Rate Rs.	280.00					600.00	302.40	181440.00
	Add 8% A.W Rs.	22.40							
	Total Rate Rs.	**302.40**							

20	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 5.00 Km (Page No.141)						Cum		
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28		Qty vide Item No.11			--	51.84	72.71	3769.00
	Basic Tate Lead Charges upto 2.00 Kms	62.20							
	2x1.28x2 =	5.12							
	Loading and unloading	67.32							
	Average Weight of earth 1.28 tone/kg for 6x1.20x2.00=12.00	5.39							
	1-TPI charges	72.71							42000.
21	Miscelleneous & Rounding off							616	2745.00
					Toatl Rs.				4200000.00
	(Rupees:- ~~Eighty~~ Lakhs Only)								

lead got to be approved.

Fourty-two

CERTIFICATE:

1 The work spot has been inspected me and the work is found to be necessary.
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2013-14
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

Junior Engineer
Ward No. 07

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

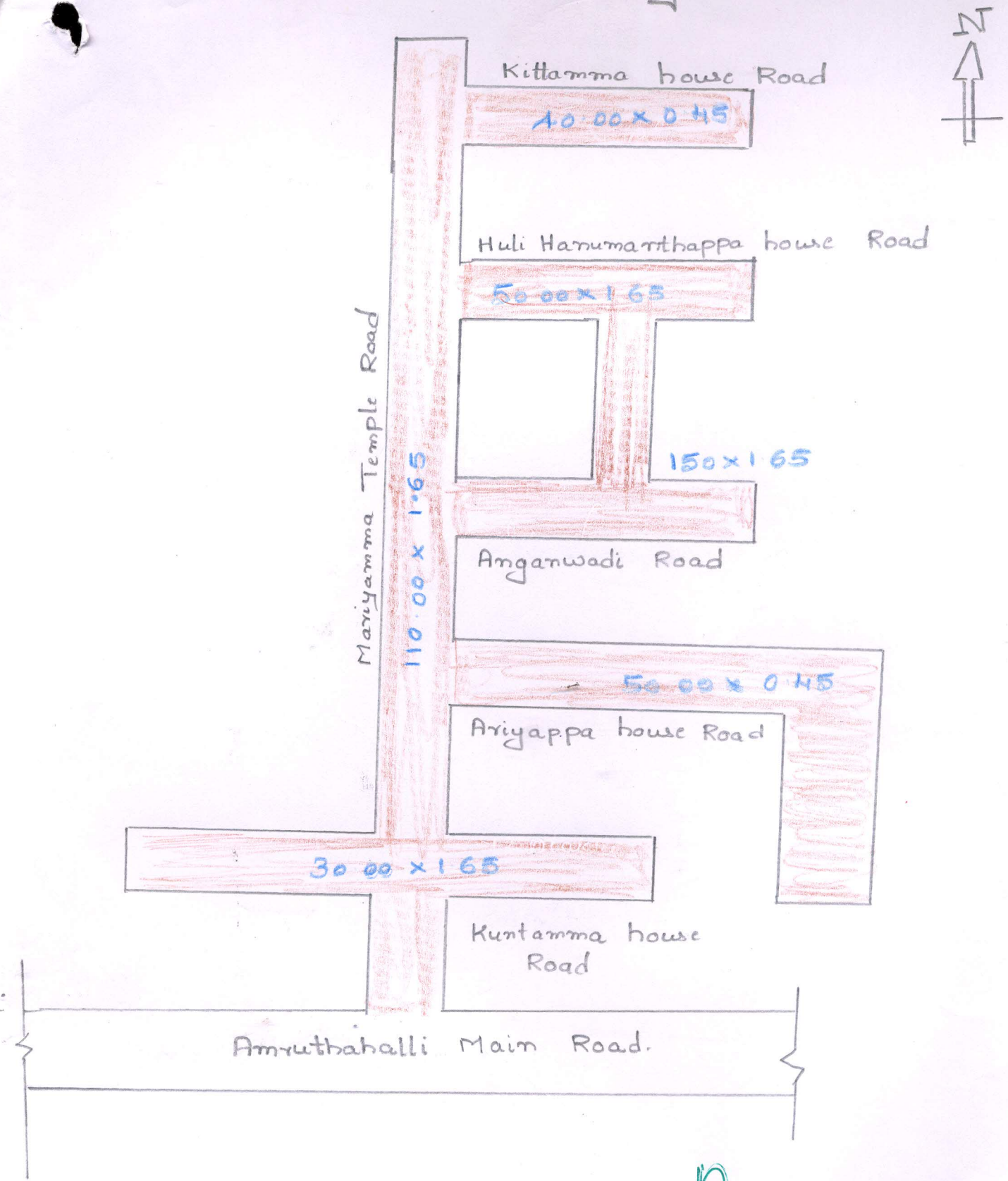
Technical sanction for Rs. 42.00 lakhs
Fourty two lakhs
P1771

ADMINISTRATIVELY SANCTIONED FOR Rs. 42.00 lakhs
Rupees
Under P1771
Registered as EE ( ) No
Subject to conditions contained in
enclosed memo No. JC(Yel) 323/13-14
Dt 30/10/13 Estimate A/Sanctioned
No
dated Rs

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92

Technical sanction is accorded as EE No. ...
to the terms contained enclosed
No. Sel/Yel/24/13-14. 29/10/13

Name of Work- Improvements to Roads & drains in Amruthahalli Eastern Surrounding Roads in Ward. 07



Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.